

04-11-05

RCE/2811/
ZJW

Practitioner's Docket No.: 800_134

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of: Yuji HORI, Osamu ODA, Mitsuhiro TANAKA, Bruno DAUDIN and
Eva MONROY

Ser. No.: 10/813,565

Group Art Unit: 2811

Filed: March 30, 2004

Examiner: Cuong Quang Nguyen

Confirmation No.: 4125

For: SUBSTRATE FOR SEMICONDUCTOR LIGHT-EMITTING ELEMENT,
SEMICONDUCTOR LIGHT-EMITTING ELEMENT AND SEMICONDUCTOR
LIGHT-EMITTING ELEMENT FABRICATION METHOD

Mail Stop RCE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

I hereby certify that this correspondence is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 addressed to Mail Stop RCE, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on April 8, 2005 under "EXPRESS MAIL" mailing label number EV 40699 2565 US.

Janet M. Stevens
Janet M. Stevens

REQUEST FOR CONTINUED EXAMINATION
(37 CFR §1.114)

1. Applicant hereby requests continued examination, in accordance with 37 CFR §1.114, for the above identified application.

2. This request is being submitted:

i. ☐ Prior to abandonment of the application

ii. ☒ Payment of the issue fee

☒ Prior to payment of issue fee

☐ Issue fee has been paid but a petition under §1.313 was filed _____
(copy attached).

iii. ☐ Prior to a decision on appeal to the Board of Patent Appeals & Interferences

☐ A notice is being separately sent to the Board of Patent Appeals & Interferences that this Request for Continued Examination is being filed.

iv. ☐ Appeal to the U.S. Court of Appeals of the Federal Circuit under 35 U.S.C. 145 or

☐ Commencement of a civil action under 35 U.S.C. 146

☐ Prior to the filing of such appeal or commencement of civil action

☐ Such appeal or commencement of civil action has been terminated.

3. Please **Enter** and **Consider** the following *Previously Submitted Documents*:

- ☐ Amendment filed _____.
- ☐ Brief on Appeal filed _____.
- ☐ Other:

4. Enclosed herewith is/are:

- ☒ An Information Disclosure Statement and Form PTO-1449
- ☐ An Amendment
- ☐ New arguments
- ☐ New evidence in support of patentability
- ☐ Other:

5. The filing fee has been calculated as shown below:

RCE Filing Fee (37 CFR §1.17(e))						\$ 790.00
Claims	Claims Remaining After Amendment		Highest Number Previously Paid	No. of Extra Claims Present		
Total Claims	13	Minus	20	0	\$ 50.00	
Independent Claims	2	Minus	3	0	\$ 200.00	
Multiple Dependent Claim(s) (if applicable)					\$ 360.00	
<p style="text-align: center;"><u>Extension of Term</u></p> <p>a. <input checked="" type="checkbox"/> Applicant believes that no extension of term is required. However, this conditional petition is being made to provide for the possibility that applicant has inadvertently overlooked the need for a petition and fee for extension of time.</p> <p>b. <input type="checkbox"/> Applicant petitions for an extension of time, the fees for which are set out in 37 CFR §1.17(a)(1)-(4), for the total number of months checked below:</p> <p><input type="checkbox"/> One Month (37 CFR 1.17(a)(1)) \$ 120.00</p> <p><input type="checkbox"/> Two Months (37 CFR 1.17(a)(2)) \$ 450.00</p> <p><input type="checkbox"/> Three Months (37 CFR 1.17(a)(3)) \$1,020.00</p> <p>If an additional extension of time is required, please consider this a petition therefor.</p> <p><input type="checkbox"/> An extension for _____ months has already been secured, and the fee paid therefor of \$_____ is deducted from the total fee due for the total months of extension now requested.</p>						
TOTAL OF ABOVE CALCULATIONS =						\$ 790.00
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR §1.27.						
TOTAL FEES DUE =						\$ 790.00

6. Payment of Fees

☒ A check in the amount of \$790.00 is enclosed.

☐ Charge Deposit Account 50-1446 in the amount of \$.

7. Authorization to Charge Additional Fees or Credit Overpayment

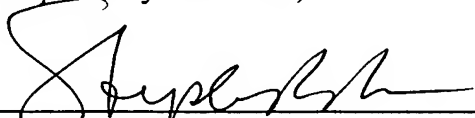
☒ The Commissioner is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to Deposit Account No. 50-1446 (a duplicate copy of this sheet is enclosed):

☒ Any additional fees required under 37 CFR §1.17(e), §1.16(b)-(d) and/or §1.17(a)(1)-(4).

Respectfully submitted,

April 8, 2005

Date



Stephen P. Burr
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INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached Form PTO-1449. Required copies of the references listed on Form PTO-1449 are attached.

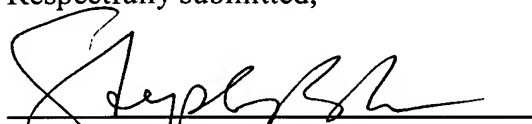
Also enclosed is a copy of a European Search Report from a corresponding European patent application bearing a mailing date of November 7, 2003, and the U.S. PTO is directed thereto for a concise statement of possible relevance of the references cited therein.

The above information is presented so that the Patent and Trademark Office may, in the first instance, determine any materiality thereof to the claimed invention. It is respectfully requested that the information be expressly considered during the prosecution of this

application, and that these references be made of record therein and appear among the
"References Cited" on any patent to issue therefrom.

The Commissioner is hereby authorized to charge any additional fees associated with
this communication or credit any overpayment to Deposit Account No. 50-1446.

Respectfully submitted,



Stephen P. Burr
Reg. No. 32,970

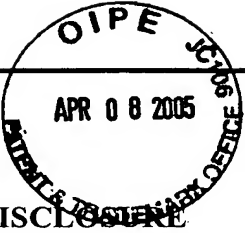
April 8, 2005

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Form PTO-1449 US DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>						Complete if Known	
				Application Number	10/813,565		
				Filing Date	March 30, 2004		
				First Named Inventor	Yuji HORI		
				Art Unit	2811		
				Examiner Name	Cuong Quang Nguyen		
				Confirmation No.	4125		
Sheet	1	of	2	Attorney Docket No.	800_134		

U.S. PATENT DOCUMENTS

Exam. Initial		Document Number	Date	Name	Our Docket No.	Class	Sub Class	Filing Date
	AA	2002/0053679 A1	05/09/2002	Nikolaev et al.				
	AB	2002/0136932 A1	09/26/2002	Yoshida				
	AC	5,488,233	01/30/1996	Ishikawa et al.				
	AD	5,740,192	04/14/1998	Hatano et al.				

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Sub Class	Translation	Abstract
	AE	1 211 737 A2	06/05/2002	EP				
	AF	00/63961	10/26/2000	WO				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages etc.)

	AG	SHIBATA T ET AL: "Characterization of high-quality epitaxial AlN films grown by MOVPE", GAN AND RELATED ALLOYS - 2001. Symposium (Materials Research Society Symposium Proceedings Vol. 693), GAN AND RELATED ALLOYS - 2001, BOSTON, MA, USA, 26-30 JAN. 2001, pages 541-544, XP001168620, 2002, Warrendale, PA, USA, Mater. Res. Soc., USA *abstract*
	AH	SAXLER A ET AL: "High quality aluminum nitride epitaxial layers grown on sapphire substrates", APPLIED PHYSICS LETTERS, 17 JAN. 1994, USA, vol. 64, no. 3, pages 339-341, XP002256572, ISSN: 0003-6951 *page 340*
	AI	OHBA Y ET AL: "Growth of high-quality AlN and AlN/GaN/AlN heterostructure on sapphire substrate" JAPANESE JOURNAL OF APPLIED PHYSICS, PART 2 (LETTERS), 15 AUG. 1996, PUBLICATION OFFICE JAPANESE JOURNAL APPL. PHYS. JAPAN, vol. 35, no. 8B, pages L1013-L1015, XP002256573, ISSN: 0021-4922 *L1013-L1014*
	AJ	KAUFMANN U ET AL: "Hole conductivity and compensation in epitaxial GaN:Mg layers" PHYSICAL REVIEW B (CONDENSED MATTER), 15 OCT. 2000, APS THROUGH AIP, USA, vol. 62, no. 16, pages 10867-10872, XP002256574, ISSN: 0163-1829 *page 10867*
	AK	SANTIC B ET AL: "Current transport mechanism and I-V characteristics of titanium and indium contacts to p-type GaN" MATERIALS SCIENCE & ENGINEERING B (SOLID-STATE MATERIALS FOR ADVANCED TECHNOLOGY), 30 MAY 2002, ELSEVIER, SWITZERLAND, vol. B93, pages 202-206, XP002255818, ISSN: 0921-5107, *the whole document*

Form PTO-1449 US DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/813,565
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				Art Unit	2811
				Examiner Name	Cuong Quang Nguyen
				Confirmation No.	4125
Sheet	2	of	2	Attorney Docket No.	800_134

AK	BHARGAVA R N: "The role of impurity in doped nanocrystals" 1996 INTERNATIONAL CONFERENCE ON LUMINESCENCE AND OPTICAL SPECTROSCOPY OF CONDENSED MATTER, PRAGUE, CZECH REPUBLIC, 18-23 AUG. 1996, vol. 72-74, pages 46-48, XP002255817, Journal of Luminscence, June 1997, Elsevier, Netherlands, ISSN: 0022-2313 *the whole document*
AL	ZHANG J ET AL: "INGAN SELF-ASSEMBLED QUANTUM DOTS GROWN BY METALORGANIC CHEMICAL-VAPOR DEPOSITION WITH INDIUM AS THE ANTISURFACTANT" APPLIED PHYSICS LETTERS, AMERICAN INSTITUTE OF PHYSICS, NEW YORK, US, vol. 80, no. 3, 21 January 2002 (2002-01-21), pages 485-487, XP001093504, ISSN: 0003-6951 *page 485*

Examiner:		Date Considered:	
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

***In accordance with the Notice dated July 11, 2003 on the PTO website, we are not enclosing copies of any of the above U.S. references.**